

ABSTRACT OF THE DISCLOSURE

Disclosed is a measuring system for measuring performance of an imaging optical system by use of an interferometer, which includes an interferometer arranged to measure transmission  
5 wavefronts separately or sequentially, in relation to at least one of plural measurement points defined along a plane perpendicular to an optical axis of the imaging optical system, wherein position coordinates of object side and image side imaging points of the plural measurement points are measured, and a computing unit being  
10 communicated with the interferometer, the computing unit being operable to calculate a wavefront as measured by the interferometer and at least one of a wavefront aberration and an imaging state of the imaging optical system, and the computing unit being operable to correct a measured value related to at least one of a wavefront  
15 aberration and an imaging state of the imaging optical system at another measurement point, while taking, as a reference, at least one of a wavefront aberration and an imaging state at a standard point set along a plane perpendicular to the optical axis.